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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,912	08/25/2003	Helmut Thoma	Westphal.7276	2331
50811	7590	09/25/2007	EXAMINER	
O'SHEA, GETZ & KOSAKOWSKI, P.C. 1500 MAIN ST. SUITE 912 SPRINGFIELD, MA 01115			BOES, TERENCE	
		ART UNIT	PAPER NUMBER	
		3682		
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		09/25/2007		PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/647,912	THOMA, HELMUT
	Examiner Terence Boes	Art Unit 3682

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 09 July 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
 - 4a) Of the above claim(s) 2-10, 15-17 and 20 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1, 11-14, 18 and 19 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1, 11-14, 18 and 19, as best understood, are rejected under 35 U.S.C. 102(b) as being anticipated by Shinichi JP 59117951.

Shinichi discloses:

- a first gear (13) having a plurality of first gear teeth located along the radial periphery of the first gear;
- a second gear (12) having a plurality of second gear teeth located along the radial periphery of the second gear
- where the first gear is constructed from a first material and the second gear is constructed from a second material different than the first material (see summary of invention)
- wherein the first and second gears are disposed co-axially adjacent one another on the shaft (gears are shown adjacent, shaft is inherent if not disclosed, see shaft in figure 4b):
- where the elasticity of the first gear is greater than that of the second gear (see summary of invention),

- where the strength of the second gear is greater than that of the first gear (see summary of invention),
- wherein the first gear and the second gear are arranged co-axially on the shaft axially detached from each other (see figures 3 and 4,) such that the first and second gears rotate in the same direction relative to the shaft and independently, of each other (see abstract).
- where the first gear has a greater elasticity than that of the second gear, such that in the absence of a certain amount of load the first gear is engaged with the cooperating gear and the second gear is disengaged from the cooperating gear and in the presence of a certain amount of torque both the first and second gears engage(s) the cooperating gear (see abstract).
- wherein the first gear teeth and the second gear teeth are helically arranged adjacent to one another (see figure 4C).
- wherein the first gear teeth and the second gear teeth are helically arranged offset to one another (see figures 3 and 4C).
- wherein the first material comprises plastic and second material is metallic.

Response to Arguments

2. Applicant's arguments filed 07/09/2007 have been fully considered but they are not persuasive.
3. Applicant argues: "Shinichi is incapable of anticipating amended claim 1. Specifically, upon a fair and proper reading, Shinichi fails to disclose the claimed feature of "where the first gear and the second gear are arranged on the shaft axially detached from each other."

In response, the fact that the two admitted gears (12 and 13) are "integrally [used] as one gear" does not prove that the gears are not "axially detached" as claimed. Webster's II New Riverside Dictionary defines detached as: separate. Clearly the two admitted gears are separate as they are given separate reference characters and discussed separately. In fact Shinichi discloses "two gears" (see Summary of invention paragraph, line 1). Furthermore, the gears function separately as recited in the constitution: "When the gears 11, 12 are meshed, the gear 13 engages with the gear 11 always earlier before the gear 12 engages with the gear 11 by a distance of the larger thickness and rotates always in close contact". The mere fact that the two gears function together does not show that the two gears are not axially detached. Furthermore, Shinichi's figure 4 shows a distinct separation, illustrating that the gears are axially detached. Furthermore, applicant's figures 1-3 show gears immediately adjacent, just as Shinichi's figure 4 shows the two

admitted gears immediately adjacent. Furthermore, applicant's invention functions in the exact same way as described in the abstract: "...only the first gear (1), while having the same modulus, comes into engagement with another gear in normal operation. As the load increases, the first gear (1) made of plastic yields in the elastic range so that now the second gear (2) made of metal also comes into engagement in order to accept the forces occurring...".

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terence Boes whose telephone number is (571) 272-4898. The examiner can normally be reached on Monday - Friday 9:00 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TB
TB
9/12/07



RICHARD RIDLEY
SUPERVISORY PATENT EXAMINER